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(WO/2002/097406) USE OF OPTICAL DIFFRACTION ELEMENTS IN DETECTION METHODS

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Applicants: GNOTHIS HOLDING SA [CH/CH]; CH-1015 Ecublens (CH) (*All Except US*).
 RIGLER, Rudolf [AT/CH]; 115, rue du Centre, CH-1025 St-Sulpice (CH) (*US Only*).
 BLOM, Hans [SE/SE]; Sibeliusg. 40 III, S-164 72 Kista (SE) (*US Only*).
 JOHANSSON, Mathias [SE/SE]; Landbogatan 25, S-504 45 Boras (SE) (*US Only*).
 HARD, Sverkers [SE/SE]; Langaslidens 28, S-412 70 Göteborg (SE) (*US Only*).

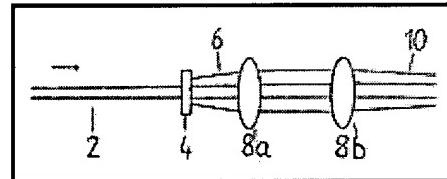
Inventors: RIGLER, Rudolf [AT/CH]; 115, rue du Centre, CH-1025 St-Sulpice (CH).
 BLOM, Hans [SE/SE]; Sibeliusg. 40 III, S-164 72 Kista (SE).
 JOHANSSON, Mathias [SE/SE]; Landbogatan 25, S-504 45 Boras (SE).
 HARD, Sverkers [SE/SE]; Langaslidens 28, S-412 70 Göteborg (SE).

Agent: WEICKMANN & WEICKMANN; Postfach 860 820, 81635 München (DE).

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Title: (EN) USE OF OPTICAL DIFFRACTION ELEMENTS IN DETECTION METHODS
 (DE) VERWENDUNG VON OPTISCHEN DIFFRAKTIONSELEMENTEN IN
 NACHWEISVERFAHREN

Abstract: (EN) The invention relates to a method for determining luminescent molecules by means of optical stimulation in confocal measuring volumes, using a diffractive optical element. The inventive method is especially suitable for determining single molecules, e.g. by means of fluorescence correlation spectroscopy or by means of dynamic light scattering. The invention also relates to a device which is suitable for carrying out the inventive method.



(DE) Die Erfindung betrifft ein Verfahren zur Bestimmung von lumineszierenden Molekülen durch optische Anregung in konfokalen Messvolumina unter Verwendung eines diffraktiven optischen Elements. Das Verfahren eignet sich besonders zur Einzelmolekülbestimmung, z.B. durch Fluoreszenz-Korrelationspektroskopie oder durch dynamische Lichtstreuung. Weiterhin wird eine zur Durchführung des erfindungsgemäßen Verfahrens geeignete Vorrichtung offenbart.

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